

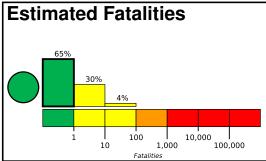


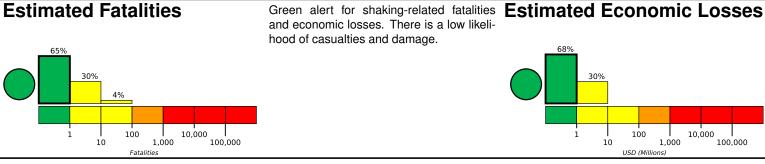


PAGER Version 6

Created: 3 weeks, 6 days after earthquake

M 5.6, 21 km N of Tocopilla, Chile Origin Time: 2023-12-21 16:21:52 UTC (Thu 13:21:52 local) Location: 21.8997° S 70.1585° W Depth: 61.7 km



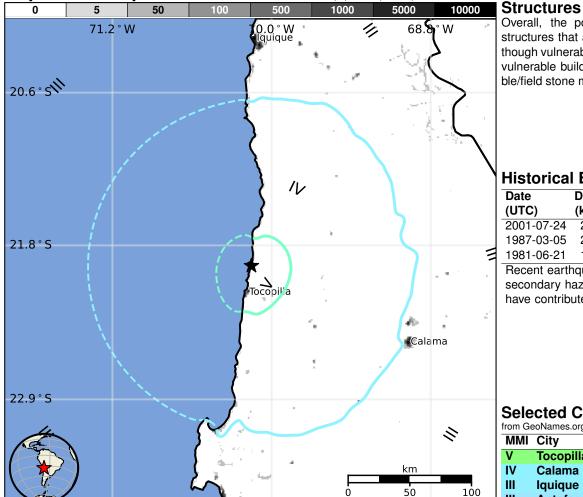


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	651k*	223k	24k	3k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

Population Exposure

population per 1 sq. km from Landscan



Selected City Exposure

nom decivames.org			
MMI	City	Population	
٧	Tocopilla	24	
IV	Calama	143	
Ш	Iquique	227	
Ш	Antofagasta	310	

bold cities appear on map.

(k = x1000)

*Estimated exposure only includes population within the map area.

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

Historical Earthquakes

		-		
Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2001-07-24	278	6.3	V(36k)	1
1987-03-05	277	7.5	VII(46k)	1
1981-06-21	182	5.7	VII(6k)	10

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.